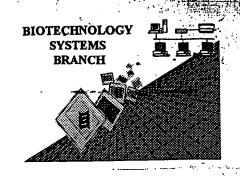
## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/645 593

Source: 0//

Date Processed by STIC: 9/7/2000

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR FURTHER INFORMATION, PLEASE TELEPHONE MARK SEE 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

## Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

## ERROR DETECTED SUGGESTED CORRECTION

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE The number/text at the end of each line "wrapped" down to the next line. Wrapped Nucleics This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping". The amino acid number/text at the end of each line "wrapped" down to the next line. Wrapped Aminos This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping". The rules require that a line not exceed 72 characters in length. This includes spaces Incorrect Line Length The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs Misaligned Amino Acid between the numbering. It is recommended to delete any tabs and use spacing between the numbers. Numbering This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. Non-ASCII Please ensure your subsequent submission is saved in ASCII text so that it can be processed. Sequence(s) \_\_\_\_ contain n's or Xaa's which represented more than one residue. Variable Length As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing. Patentin ver, 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid . Normally, Patentin would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences. missing. If intentional, please use the following format for each skipped sequence: Skipped Sequences Sequence(s) (2) INFORMATION FOR SEQ ID NO:X: (OLD RULES) (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS") (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s). Sequence(s) \_\_\_\_ missing. If intentional, please use the following format for each skipped sequence. Skipped Sequences (NEW RULES) <210> sequence id number <400> sequence id number 000 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing. (NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents. Use of <213>Organism are missing this mandatory field or its response. (NEW RULES) Sequence(s) \_\_\_\_ are missing the <220>Feature and associated headings. Use of <220>Feature Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown" (NEW RULES) Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)

AKS-Biotechnology Systems Branch- 5/15/99

Instead, please use "File Manager" or any other means to copy file to floppy disk.

Patentin ver. 2.0 "bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted

file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).

OIPE

**Does Not Comply** 

Corrected Diskette Needed

RAW SEQUENCE LISTING

'n

PATENT APPLICATION: US/09/645,593

DATE: 09/07/2000

TIME: 14:27:09

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Output Set: N:\CRF3\09072000\1645593.raw

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           van Rooijen, Gijs
           Moloney, Maurice
           Singh, Surinder
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0/7/00

RAW SEQUENCE LISTING DATE: 09/07/2000 PATENT APPLICATION: US/09/645,593 TIME: 14:27:09

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Output Set: N:\CRF3\09072000\1645593.raw

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PATENT APPLICATION: US/09/645,593

DATE: 09/07/2000
TIME: 14:27:09

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DATE: 09/07/2000

TIME: 14:27:09 PATENT APPLICATION: US/09/645,593 Input Set : A:\Sequence Output Set: N:\CRF3\09072000\1645593.raw 227 Lys Gly Gly Pro His His Gln Gln Gly Ser Gly Ser Gly Pro Ser Ala 228  $\phantom{+}35\phantom{+}40\phantom{+}45\phantom{+}$ 230 Ser Lys Val Leu Ala Val Met Thr Ala Leu Pro Ile Gly Gly Thr Leu 231 50 55 60 233 Leu Ala Leu Ala Gly Ile Thr Leu Ala Gly Thr Met Ile Gly Leu Ala 234 65 70 75 80 236 Ile Thr Thr Pro Ile Phe Val Ile Cys Ser Pro Val Leu Val Pro Ala 237 85 90 95 239 Ala Leu Leu Ile Gly Phe Ala Val Ser Ala Phe Leu Ala Ser Gly Met 240 100 105 110 242 Ala Gly Leu Thr Gly Leu Thr Ser Leu Ser Trp Phe Ala Arg Tyr Leu 243 115 120 125 245 Gln Gln Ala Gly Gln Gly Val Gly Val Gly Val Pro Asp Ser Phe Glu 246 130 135 140 248 Gln Ala Lys Arg Arg Met Gln Asp Ala Ala Gly Tyr Met Gly Gln Lys 249 145 150 155 160 251 Thr Lys Glu Val Gly Gln Glu Ile Gln Arg Lys Ser Gln Asp Val Lys 165 252 254 Ala Ser Asp Lys 255 180 258 <210> SEQ ID NO: 6 259 <211> LENGTH: 1676 260 <212> TYPE: DNA 261 <213> ORGANISM: Linum usitatissimum 263 <400> SEQUENCE: 6 264 tocactatgt aggteatate cateatttta atttttggge accatteaat tecatettge 60 265 ctttagggat gtgaatatga acggccaagg taagagaata aaaataatcc aaattaaagc 120 266 aagagaggee aagtaagata atecaaatgt acaettgtea tegeegaaat tagtaaaata 180 267 cgcggcatat tgtattccca cacattatta aaataccgta tatgtattgg ctgcatttgc 240 268 atgaataata ctacgtgtaa gcccaaaaga acccacgtgt agcccatgca aagttaacac 300 269 transacco attrotragt eteractata tadaccoaco atroccaato ttaccaaaco 360 270 caccacacga eteacaacte gaeteteaca eettaaagaa eeaateacca eeaaaaaatg 420 271 gcaaagctga tgagcctagc agccgtagca acgcagttcc tetteetgat cgtggtggac 480 272 geateegtee gaaccacagt gattategae gaggagaeea accaaggeeg eggtggagge 540 273 aaggtggcag ggacagcagc agtotgcgag cagcagatcc agcagcgaga cttcctgagg 600 274 agctgccagc agttcatgtg ggagaaagtc cagaggggcg gccacagcca ctattacaac 660 275 cagggccgtg gaggaggcga acagagccag tacttcgaac agctgtttgt gacgacctta 720 276 agcaattgcg caccgcggtg caccatgcca ggggacttga agcgtgccat cggccaaatg 780 277 aggcaggaaa tccagcagca gggacagcag cagggacagc agcaggaagt tcagaggtgg 840 278 atccagcaag ctaaacaaat cgctaaggac ctccccggac agtgccgcac ccagcctagc 900 279 caatgccagt tccagggcca gcagcaatct gcatggtttt gaaggggtga tcgattatga 960 280 gatcgtacaa agacactgct aggtgttaag gatggataat aataataata atgagatgaa 1020 281 tgtgtttaa gttagtgtaa cagctgtaat aaagagagag agagagaga agagagaga 1080 282 agagagagag agagagagag agaggotgat gaaatgttat gtatgtttot tggtttttaa 1140 283 aataaatgaa agcacatgot ogtgtggtto tatogaatta ttoggoggtt ootgtgggaa 1200 284 aaagtccaga agggcggccg cagctactac tacaaccaag gccgtggagg agggcaacag 1260 285 agccagcact togatagoty otgogatgat ottaagcaat tgaggagoga gtgcacatgo 1320 286 aggggactgg agcgtgcaat cggccagatg aggcaggaca tccagcagca gggacagcag 1380 287 caggaagttg agaggtggtc ccatcaatct aaacaagtcg ctagggacct tccgggacag 1440

RAW SEQUENCE LISTING

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\$1645,593
Selvet page

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09/645,593

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Please exploral his en de sequence The circled n's on a sample.

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

 VERIFICATION SUMMARY
 DATE: 09/07/2000

 PATENT APPLICATION:
 US/09/645,593
 TIME: 14:27:10

Input Set : A:\Sequence

Output Set: N:\CRF3\09072000\1645593.raw

```
L:13 M:270 C: Current Application Number differs, Replaced Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:412 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:8
L:412 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:8
L:412 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:8
L:412 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:8
L:412 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:8
L:412 m:340 W: (40) "n" or "Aaa" used: Feature required, for SEQ ID#:8 L:413 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:8 L:413 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:8 L:413 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:8 L:413 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:8 L:413 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:8
M:340 Repeated in SeqNo=8
L:414 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:8
L:414\ M:258\ W: Mandatory Feature missing, <221> not found for SEQ ID#:8
L:414 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:8
L:414 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:8
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L:415 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:8
L:415 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:8
L:415 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:8
L:416 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:8
L:416 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:8
L:416 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:8
L:416 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:8
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L:422 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:8 L:422 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:8 L:422 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:8 L:422 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:8
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VERIFICATION SUMMARY

DATE: 09/07/2000 TIME: 14:27:10

PATENT APPLICATION: US/09/645,593

Input Set : A:\Sequence
Output Set: N:\CRF3\09072000\1645593.raw

L:455 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:10 L:455 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:10 L:455 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:10 L:455 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:10 L:455 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:10